

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph on page 2, beginning at line 9 as follows:

According to the present invention, ~~described in claim 1,~~ a color correction apparatus for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, the color image data, includes: an object pixel summing up unit for carrying out summing-up with respect to a fixed-color pixel on the basis of the color image data; a color adjustment amount computing unit for obtaining a color adjustment amount for canceling a difference between the optimum value predetermined for the fixed-color pixel and the result of the summing-up; a color adjustment amount correcting unit for correcting the color adjustment amount on the basis of the fixed elemental color elements of the pixel; and a color correcting unit for color correcting the color image data on the basis of the color adjustment amount corrected by the color adjustment amount correcting unit.

Please amend the paragraph on page 3, beginning at line 7 as follows:

[[The]] In accordance with an aspect of the present invention, ~~described in claim 2, is the correction apparatus according to claim 1, wherein~~ the object pixel summing up unit judges, as the fixed color pixel, a pixel in which a hue value obtained on the basis of the color image data is within a fixed range, and carries out summing up with respect to the judged pixel.

Please amend the paragraph on page 3, beginning at line 12 as follows:

[[The]] In accordance with an aspect of the present invention, ~~described in claim 3, is the correction apparatus according to claim 1, wherein~~ the color adjustment amount correcting unit corrects the color adjustment amount on the basis of only addition and subtraction operation of the fixed elemental color elements of each pixel.

Please amend the paragraph on page 3, beginning at line 16 as follows:

~~[[The]]~~In accordance with an aspect of the present invention, ~~described in claim 4, is the correction apparatus according to claim 1, wherein~~ the object pixel summing up unit judges, as the fixed color pixel, a pixel in which a hue value with respect to a memory color is within a fixed range, and carry out summing up with respect to the judged pixel.

Please amend the paragraph on page 3, beginning at line 20 as follows:

~~[[The]]~~In accordance with an aspect of the present invention, ~~described in claim 5, is the correction apparatus according to claim 1, wherein~~ the color adjustment amount computing unit computes an average value for every elemental color element of the color image data with respect to each pixel judged as an object pixel, and uses the average value as the result of summing up of the color adjustment amount computing unit, and the color adjustment amount computing unit has the optimum value for every elemental color element with respect to the image data to be a fixed color.

Please amend the paragraph on page 3, beginning at line 27 as follows:

~~[[The]]~~In accordance with an aspect of the present invention, ~~described in claim 6, is the correction apparatus according to claim 1, wherein~~ the color correcting unit corrects, in controlling a level of the elemental color elements, a tone curve representative of an input/output relation according to the corrected color adjustment amount to carry out color correcting of the color image data.

Please amend the paragraph on page 4, beginning at line 5 as follows:

According to the present invention ~~described in claim 7,~~ a color correction method for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, the color image data, includes: an object pixel summing up step for carrying out summing-up with respect to a fixed-color pixel on the basis of the color image data; a color adjustment amount computing step for obtaining a color adjustment amount for canceling a

difference between the optimum value predetermined for the fixed-color pixel and the result of the summing-up; a color adjustment amount correcting step for correcting the color adjustment amount on the basis of the fixed elemental color elements of the pixel; and a color correcting step for color correcting the color image data on the basis of the color adjustment amount corrected by the color adjustment amount correcting unit.

Please amend the paragraph on page 5, beginning at line 1 as follows:

According to the present invention ~~described in claim 8~~, a computer-readable has a program of instructions for execution by the computer to perform color correction processing for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements. The color image data, the color correction processing includes: an object pixel summing up processing for carrying out summing-up with respect to a fixed-color pixel on the basis of the color image data; a color adjustment amount computing processing for obtaining a color adjustment amount for canceling a difference between the optimum value predetermined for the fixed-color pixel and the result of the summing-up; a color adjustment amount correcting processing for correcting the color adjustment amount on the basis of the fixed elemental color elements of the pixel; and a color correcting processing for color correcting the color image data on the basis of the color adjustment amount corrected by the color adjustment amount correcting processing.

Please amend the paragraph on page 6, beginning at line 2 as follows:

According to the present invention ~~described in claim 9~~, a color correction apparatus for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, the color image data, includes: an object pixel summing up device that carries out summing-up with respect to a fixed-color pixel on the basis of the color image data; a color adjustment amount computing device that obtains a color adjustment amount for canceling a difference between the optimum value predetermined for the fixed-color pixel and the result of the summing-up; a color adjustment amount correcting device that corrects the color adjustment

amount on the basis of the fixed elemental color elements of the pixel; and a color correcting device that color-corrects the color image data on the basis of the color adjustment amount corrected by the color adjustment amount correcting device.

Please amend the paragraph on page 9, beginning at line 23 as follows:

While as described above, in the present embodiment, the computer system is incorporated into the input/output device for an image to carry out color correction, the computer is not always necessary, but a system for carrying out the desired color correction with respect to image data will suffice. For example, as shown in FIG. 3, a system may be employed in which a color correction apparatus for carrying out the desired color correction is incorporated into a digital still camera 12a, and the object is displayed on a display 32a using the converted image data or printing is done by a printer 31a. Further, as shown in FIG. 4, in a printer 31b for inputting and printing image data without intervention of a computer system, there can be employed the constitution in which the desired color correction is automatically carried out from image data input through a scanner ~~[[11b]]~~10b, a digital still camera 12b, a modem 26b or the like.

Please amend the paragraph on page 15, beginning at line 7 as follows:

The processes in Steps 52 and 54 of FIG. 5 by the memory color adjusting section 20e will be described with reference to FIG. ~~[[1]]~~10.

Please amend the paragraph on page 18, beginning at line 20 as follows:

According to the present invention ~~execution of the color correction apparatus according to claim 1, the color correction method according to claim 1, and the program recorded in the recording medium according to claim 8,~~ the color adjustment value which cancels a difference between the optimum value predetermined with respect to the pixel of the fixed color and the summed up result, the color adjustment amount is corrected on the basis of the fixed memory color element of each pixel, and the color image data is corrected in color on the basis of the corrected

color adjustment amount. Therefore, a computing equation for adjustment operation is simple, and the processing time can be shortened. Further, since the color adjustment amount is corrected on the basis of the fixed memory color element of each pixel, it is possible to suppress color jumping. Further, since only the fixed color can be adjusted, it is possible to suppress the influence on other colors to the minimum.

Abstract:

Please replace the current Abstract with the following replacement/new Abstract